

10/22/01  
31025 U.S. Pat. App.

1-14-02  
A

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

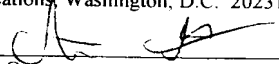
CERTIFICATE OF EXPRESS MAILING

I hereby certify that this paper and the documents and/or fees referred to as attached therein are being deposited with the United States Postal Service on October 22, 2001 in an envelope as "Express Mail Post Office to Addressee" service under 37 CFR §1.10, Mailing Label Number **EL898675531US**, addressed to: Commissioner for Patents, Box Patent Applications, Washington, D.C. 20231.

Attorney Docket No.: 01-569/LSI1P

First Named Inventor: ZUBKOV

31025 U.S. Pat. App.  
10/044864  
10/22/01

  
Alison Gates

COPY OF PAPERS  
ORIGINALLY FILED

**UTILITY PATENT APPLICATION TRANSMITTAL (37 CFR. § 1.53(b))**

Commissioner for Patents  
Box Patent Application  
Washington, D.C. 20231

**Sir:** This is a request for filing a patent application under 37 CFR. § 1.53(b) in the name of inventors:  
**VLADIMIR ZUBKOV and SHELDON ARONOWITZ**

**For:** **METHOD FOR CREATING BARRIERS FOR COPPER DIFFUSION**

**Assigned to:** LSI LOGIC CORPORATION

**Application Elements:**

- ☒ 17 Pages of Specification, Claims and Abstract  
☒ 7 Sheets of Formal Drawings  
☒ 2 Pages Combined Declaration and Power of Attorney

**Accompanying Application Parts:**

- ☒ Do not publish this application. Nonpublication Request is attached.  
☒ Assignment and Assignment Recordation Cover Sheet)  
☐ 37 CFR 3.73(b) Statement by Assignee  
☐ Information Disclosure Statement with Form PTO-1449  
☐ Copies of IDS Citations  
☐ Preliminary Amendment  
☒ Return Receipt Postcard  
☐ Other:

Fee Calculation (37 CFR § 1.1)

☐ Applicant is entitled to Small Entity Status under 37 C.F.R. §1.27.

	(Col. 1) Total Claims		(Col. 2) Claims	(Col. 3) Present Extra	Rate	Additional Fee
TOTAL	20	MINUS	20	= 0	x 18 =	-0-
INDEP.	3	MINUS	3	= 0	x 84 =	-0-
[ ] First presentation of multiple dependent claim					\$280 =	
Basic Filing Fee under 37 C.F.R. §1.16(a)					\$740 =	740.00
TOTAL						\$740.00
SMALL ENTITY 50% FILING FEE REDUCTION (if applicable)						

☐ Check No. \_\_\_\_\_ in the amount of \$ \_\_\_\_\_ is enclosed.

☒ The Commissioner is authorized to charge any fees beyond the amount enclosed which may be required, or to credit any overpayment, to Deposit Account No. 12-2252 (Order No. 01-569).

General Authorization for Petition for Extension of Time (37 CFR §1.136)

☒ Applicants hereby make and generally authorize any Petitions for Extensions of Time as may be needed for any subsequent filings. The Commissioner is also authorized to charge any extension fees under 37 CFR §1.17 as may be needed to Deposit Account No. 12-2252 (Order No. 01-569/LSIIP177).

☒ Please send correspondence to the following address:

**Customer Number 24319**

LSI Logic Corporation  
1551 McCarthy Boulevard  
Milpitas, California  
Telephone (408) 433-6100



**24319**

PATENT TRADEMARK OFFICE

Date: October 22, 2001

*Michael Lee*

Michael Lee  
Registration No. 31,846

---

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

---

In re application of: ZUBKOV et al.

Attorney Docket No.: 01-569/LSI1P177

Application No.: Please assign

Examiner: Not assigned

Filed: Herewith

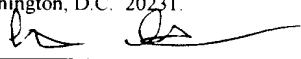
Group: Not assigned

Title: METHOD FOR CREATING BARRIERS  
FOR COPPER DIFFUSION

---

**CERTIFICATE OF EXPRESS MAILING**

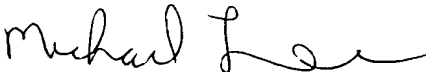
I hereby certify that this paper and the documents and/or fees referred to as attached therein are being deposited with the United States Postal Service on October 22, 2001 in an envelope as "Express Mail Post Office to Addressee" service under 37 CFR §1.10, Mailing Label Number **EL898675531US**, addressed to: Commissioner for Patents, Box Patent Applications, Washington, D.C. 20231.

  
Alison Gates**NONPUBLICATION REQUEST AND CERTIFICATION  
(35 U.S.C. 122(b)(2)(B)(i))**

Commissioner for Patents  
Box Patent Applications  
Washington, D.C. 20231

Sir:

I hereby certify that the invention disclosed in the attached application has not and will not be the subject of an application filed in another country, or under a multilateral agreement, that requires publication at eighteen (18) months after filing. I hereby request that the attached application **NOT** be published under 35 U.S.C. 122(b).

Date: October 22, 2001

Michael Lee  
Registration No. 31,846

**NOTE:**

This request must be signed in compliance with 37 CFR 1.33(b) and submitted with the application upon filing.

Applicant may rescind this nonpublication request at any time. If applicant rescinds a request that an application not be published under 35 U.S.C. 122(b), the application will be scheduled for publication at eighteen months from the earliest claimed filing date for which a benefit is claimed.

If applicant subsequently files an application directed to the invention disclosed in the attached application in another country, or under a multilateral international agreement, that requires publication of applications, eighteen months after filing, the applicant **must** notify the United States Patent and Trademark Office of such filing within forty-five (45) days after the date of the filing of such foreign of international application. Failure to do so will result in abandonment of this application (35 U.S.C. 122(b)(2)(B)(iii)).

Figure 2 consists of 12 scatter plots, labeled (a) through (l), arranged in a 6x2 grid. Each plot shows the relationship between a specific variable (on the x-axis) and the number of children (on the y-axis). The variables are: (a) Age, (b) Sex, (c) Education, (d) Income, (e) Religion, (f) Ethnicity, (g) Marital status, (h) Health status, (i) Employment status, (j) Social capital, (k) Attitudes towards children, and (l) Parental involvement. The plots show varying degrees of correlation. For example, plots (a) and (d) show a positive correlation, while plots (h) and (i) show a negative correlation. Plots (b), (c), (e), (f), (g), (j), (k), and (l) show a weak or no correlation.